

DATASHEET PRODUCTS & SERVICES

Fractus BAR mXTEND™ Antenna Booster 698 - 798 MHz, 824 - 960 MHz and 1710 - 2690 MHz

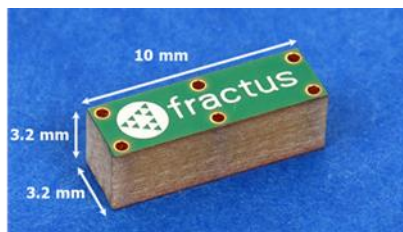
Fractus specialises in enabling effective mobile communications. Using Fractus technology, we design and manufacture optimised antennas to make your wireless devices more competitive. Our mission is to help our clients develop innovative products and accelerate their time to market through our expertise in antenna design, testing and manufacturing.

Fractus BAR mXTEND™ Antenna Booster

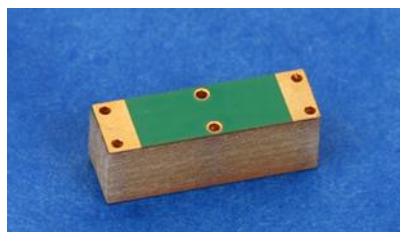
P/N: FR01-S4-232

The Fractus BAR mXTEND™ Antenna Booster has been specifically designed for providing multiband performance in wireless devices (in particular in mobile devices), enabling worldwide coverage by allowing operation in the communication standards GSM850, GSM900, GSM1800/DCS, GSM1900/PCS, UMTS, LTE700, LTE800, LTE850, LTE900, LTE1700, LTE1800, LTE1900, LTE2000, LTE2100, LTE2300, LTE2500 and LTE2600.
Bands: LTE 1-10, LTE 12-20, LTE 23, LTE 25-30, LTE 33-41, LTE 44.

10.0 mm x 3.2 mm x 3.2 mm (image larger than actual size)



TOP



BOTTOM

Product Benefits

- Small size
- Cost-effective
- High efficiency
- Easy to use (pick and place)
- Multiband behaviour (worldwide standards compatible)
- Off-the-Shelf, Standard Product (no customization is required)

Evaluation Boards

Class	Number of frequency regions	Frequency range	Part Number	Page
1 Port	2	824 – 960 MHz 1710 – 2690 MHz	EB_FR01-S4-232-UFL2R-1P	2
3 Ports	3	698 – 798 MHz & 824 – 960 MHz & 1710 – 2690 MHz	EB_FR01-S4-232-UFL3R	2



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698 - 798 MHz, 824 - 960 MHz and 1710 - 2690 MHz



3 port solution – 3 frequency regions

Technical features	698 - 798 MHz	824 - 960 MHz	1710 - 2690 MHz
Average Efficiency	> 45.0 %	> 40.0 %	> 75.0 %
Peak Gain	1.3 dBi	0.3 dBi	3.8 dBi
VSWR	< 3:1		
Radiation Pattern	Omnidirectional		
Polarization	Linear		
Weight (approx.)	0.21 g		
Temperature	-40 to + 85 °C		
Impedance	50 Ω		
Dimensions (L x W x H)	10.0 mm x 3.2 mm x 3.2 mm		

Technical features. Measures from the evaluation board with UFL cables (133 mm x 60 mm x 1 mm).

See pictures of the evaluation boards, matching network configuration and graphs of the specs in the chapter 2 of the [User Manual](#).

1 port solution – 2 frequency regions

Technical features	824 - 960 MHz	1710 - 2690 MHz
Average Efficiency	> 50.0 %	> 65.0 %
Peak Gain	0.7 dBi	2.9 dBi
VSWR	< 3:1	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Weight (approx.)	0.21 g	
Temperature	-40 to + 85 °C	
Impedance	50 Ω	
Dimensions (L x W x H)	10.0 mm x 3.2 mm x 3.2 mm	

Technical features. Measures from the evaluation board with UFL cables (133 mm x 60 mm x 1 mm).

See pictures of the evaluation boards, matching network configuration and graphs of the specs in the chapter 3 of the [User Manual](#).